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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The sectional view having shown the important section of the ink jet type recording head by 1 operation gestalt of this invention.

[Drawing 2] The sectional view which met the A-A line of drawing 1 .

[Drawing 3] The sectional view which met the B-B line of drawing 1 .

[Drawing 4] The sectional view which met the C-C line of drawing 2 .

[Drawing 5] It is the configuration that are the sectional view having shown the various configurations of plate-like part material, and the configuration in which the configuration in which (a) prepared the SUS layer in the both sides of PI layer, and (b) prepared the SUS layer in the both sides of an PPS layer through the adhesives layer, and (c) prepared the SUS layer in the both sides of an SUS layer through the adhesives layer.

[Drawing 6] The sectional view having shown the plate-like part material and nozzle plate in the example of a complete-change form of the operation gestalt shown in drawing 1 .

[Drawing 7] The plate-like part material in other modifications of the operation gestalt shown in drawing 1 , a base material, and the sectional view having shown the nozzle plate.

[Drawing 8] The plate-like part material in other operation gestalten of this invention, a base material, and the sectional view having shown the nozzle plate.

[Drawing 9] Drawing which looked at the septum of the plate-like part material in other operation gestalten of this invention from the front-face side.

[Drawing 10] The plate-like part material in other operation gestalten of this invention, a base material, and the sectional view having shown the nozzle plate.

[Drawing 11] It is drawing showing 1 operation gestalt of the ink jet type recording head of this invention, and (a) is [the A-A sectional view of (a) and (c of drawing of longitudinal section and (b))] the B-B sectional views of (b).

[Drawing 12] It is drawing showing other operation gestalten of the ink jet type recording head of this invention, and (a) is drawing of longitudinal section and (b) is the A-A sectional view of (a).

[Drawing 13] It is the process explanatory view showing 1 operation gestalt of the manufacture approach of the ink jet type recording head of this invention.

[Drawing 14] It is drawing of longitudinal section showing other operation gestalten of the ink jet type recording head of this invention.

[Drawing 15] It is the process explanatory view showing other operation gestalten of the manufacture approach of the ink jet type recording head of this invention.

[Drawing 16] It is drawing of longitudinal section showing other operation gestalten of the ink jet type recording head of this invention.

[Drawing 17] It is drawing of longitudinal section showing other operation gestalten of the ink jet type recording head of this invention.

[Drawing 18] It is drawing of longitudinal section showing other operation gestalten of the ink jet type recording head of this invention.

[Drawing 19] It is drawing of longitudinal section showing 1 operation gestalt of the ink jet type recording head of this invention.

[Drawing 20] It is the fragmentary sectional view of the ink jet type recording head in alignment with the Ath page of drawing 19 .

[Drawing 21] It is the fragmentary sectional view of the ink jet type recording head in alignment with the Bth page of drawing 19 .

[Drawing 22] It is the fragmentary sectional view of the ink jet type recording head along C side of drawing 19 .

[Drawing 23] It is the fragmentary sectional view of the ink jet type recording head along D side of drawing 19 .

[Drawing 24] It is drawing showing the production process of the 1st passage substrate of the ink jet type recording head shown in drawing 19 .

[Drawing 25] It is drawing showing the production process of the 2nd passage substrate of the ink jet type recording head shown in drawing 19 .

[Drawing 26] It is drawing showing the production process of the passage unit of the ink jet type recording head shown in drawing 19 .

[Drawing 27] It is the important section expanded sectional view showing the etching halt layer of the ink jet type recording head shown in drawing 19 .

[Drawing 28] It is drawing of longitudinal section showing other operation gestalten of the ink jet type recording head of this invention.

[Drawing 29] It is drawing showing the production process of the ink jet type recording head shown in drawing 28 .

[Drawing 30] The sectional view having shown the conventional ink jet type recording head.

[Drawing 31] The sectional view having expanded and shown the pressure room of the recording head shown in drawing 30 , and its circumference.

[Drawing 32] The sectional view having shown the condition that adhesives overflowed into the interior of the pressure room shown in drawing 31 .

[Drawing 33] It is the decomposition perspective view showing the conventional ink jet type recording head.

[Drawing 34] It is drawing of longitudinal section showing the conventional ink jet type recording head.

[Description of Notations]

1 Ink Jet Type Recording Head

2 Plate-like Part Material

2a The front face of plate-like part material

2b The rear face of plate-like part material

3 Case

4 1st Layer

5 2nd Layer

6 Interlayer

7 Septum

8 Pressure Room

9 Ink Feed Hopper

10 Common Ink Room

11 Insular Part

12 Pressure Generating Component

15 Elastic-Deformation Section

16 Base Material

17 Free Passage Hole

18 Nozzle Plate

19 Nozzle Orifice

21 1st Adhesives Layer

22 2nd Adhesives Layer
23 Polyolefine Film Adhesive
30 Extended Ink Room
31 Dilatation Pressure Force Room
40 Adhesives Prehension Slot
101 Passage Unit
103 Nozzle Plate
104 Passage Formation Plate
105 Diaphragm
106 Piezoelectric Transducer
107 Pressure Room
108 Nozzle Orifice
120 1st Substrate
121 Free Passage Hole
122 2nd Substrate
125 Etching Halt Layer
201 Passage Unit
203 Nozzle Plate
204 Passage Formation Plate
205 Diaphragm
206 Piezoelectric Transducer
207 Pressure Room
209 Ink Reservoir Room

[Translation done.]